

RHS LIQUID COOLED ROTATIONAL HEATING CLAMP



Rapid Heat Systems has designed and manufactured the Rotational Heating Clamp.

FEATURES

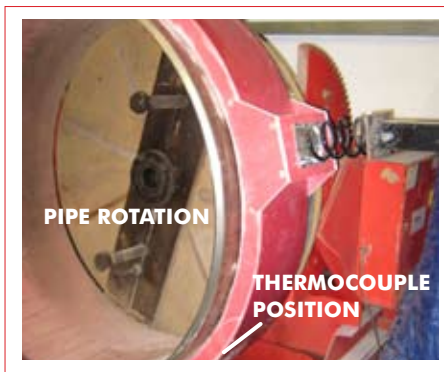
- Heating wear face (green face material) that is capable of approx 300°C
- Remainder of the heating clamp (red faced material) will handle approx 200°C
- Spring positioned on the back of the heating clamp mounting is designed to allow the clamp to move in the vertical position to allow for any ovality in the pipe
- Fitted with 2 touch thermocouples that are designed to be spring loaded to follow the contour of the pipe

NOTE:

Heating clamp pictured is built to suite 2130mm diameter pipe. Each clamp is custom built to your pipe specification.

SETUP

- Mount the heating clamp onto a scaffolding tube frame, or similar (of your own design/job spec)
- The main supporting arm for the clamp should sit just above the horizontal centre line of the pipe to be heated (Pic 1)
- Touch thermocouples should be at the bottom section of the pipe (Pic 1 & 2), and pipe rotation (Pic 1)
- The thermocouples have been set-up to work in this direction of rotation, if you were to reverse the direction of the rotation the heating clamp will still work but the thermocouple will try to bend over on themselves and thus not give you a correct thermocouple control
- The heating clamp must straddle both parts of the pipes to be welded (see comparison between Pic 3 & Pic 1)
- Connect the heating clamp to the Rapid Heat 35 Machine via a liquid cooled extension cable and the thermocouple extension cable, which plugs into TC1
- Start the Rapid Heat 35 Machine and set heat program
- Start pipe rotation



PICTURE 1



PICTURE 2



PICTURE 3

RESULTS

As the pipe rotates round to the start point, the thermocouples will start to pick up the temperature readings and alter the Rapid Heat 35 out-put kw's to suit the target temperature that has been set.

This application is ideally suited for large diameter rotation when using Submerged Arc or Manual Metal Arc, but is also suited to small diameters.

All clamps are custom built and can be fixed or adjustable.

Patent Protected